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properties of surfaces of the second degree with three unequal axes. And accordingly (in the Philosophical Magazine for September, 1844), I have examined what are the results of that process, when the centre of the surface is made the origin of transformation, and in this way I have been led to discover the properties of two cylinders, remarkably related to the surfaces of the second degree.

“ 5. But, more generally still, we may transform those focal properties, placing the centre of our auxiliary sphere at any point of space ; and thus the following leading problem is suggested and solved :

“ *Given any surface of the second degree, and a point anywhere situated, to trace on the surface all the plane curves, which, viewed from the given point, shall appear to be circles.*

“ The brief indications given in the present note will, of course, require large developments ; and these, with the permission of the Academy, I shall endeavour to supply on some future occasion. My object in what I have now said has been merely to direct attention in a general way to several considerable groups of the properties of curves and surfaces of the second degree, which may, with advantage, be studied as results of the Polar Transformation.”

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